

FIG. 1

FIG. 1 is a cross-sectional view of a circular device 12. The device consists of an outer ring 13 and an inner ring 15. A dashed line 17 indicates a boundary or interface. The central area is labeled 20. The inner ring 15 has a wavy outer edge 19. A dashed line 21 is also shown within the inner ring.

Figure 1A

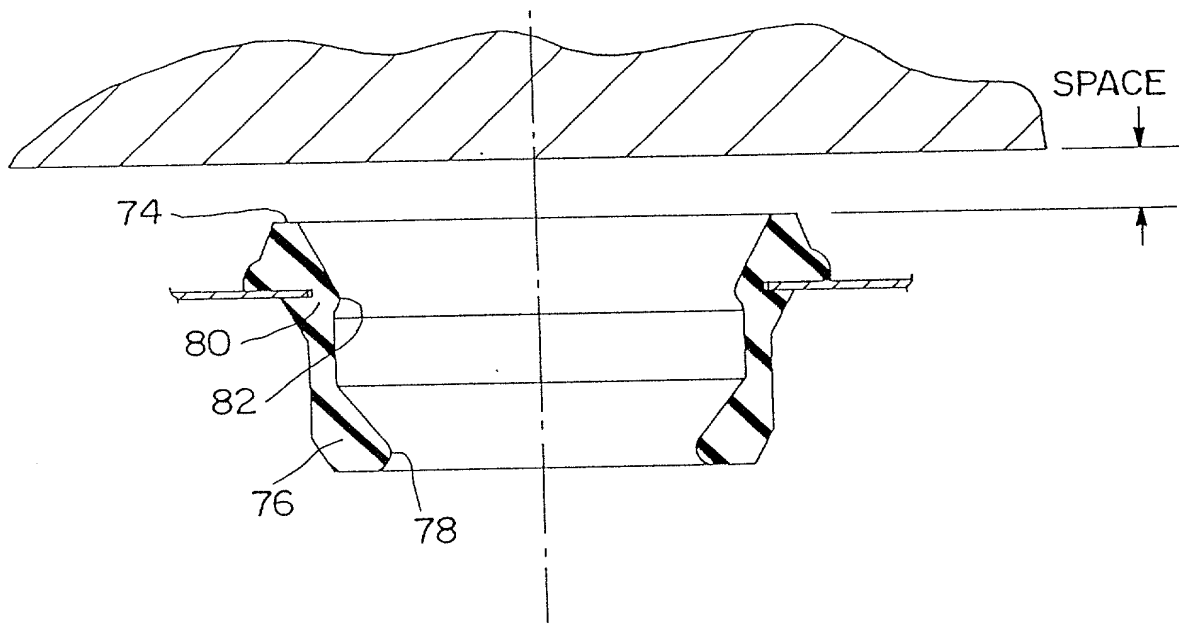


FIG. 2

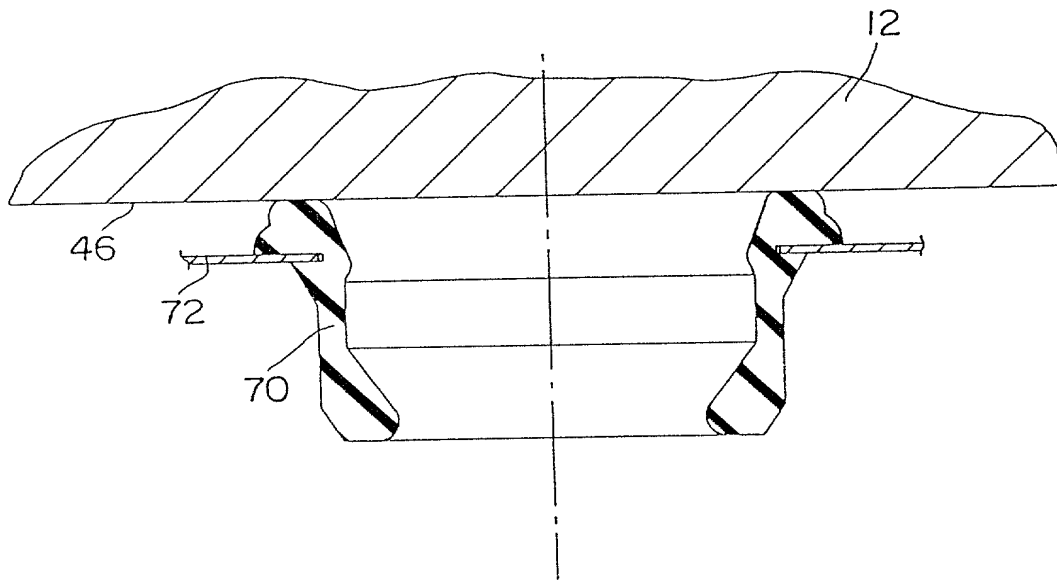


FIG. 3

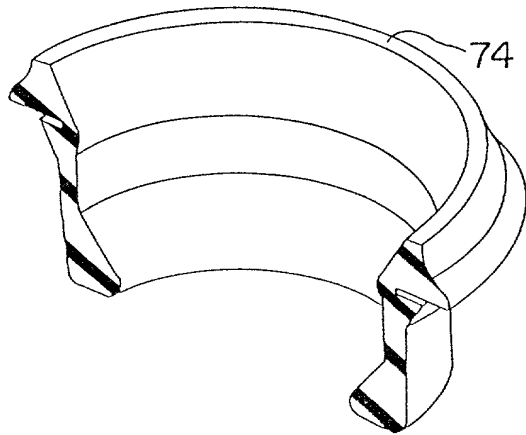


FIG. 4a

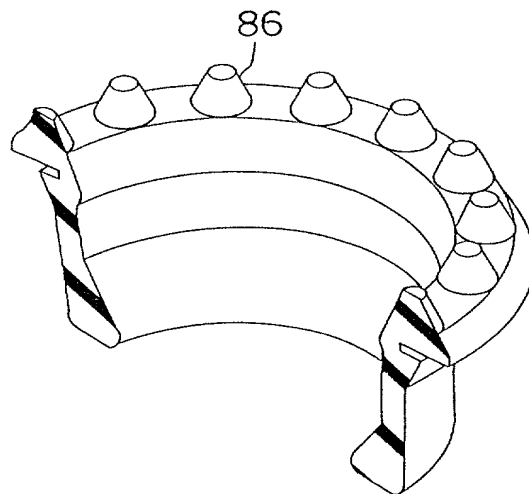


FIG. 4b

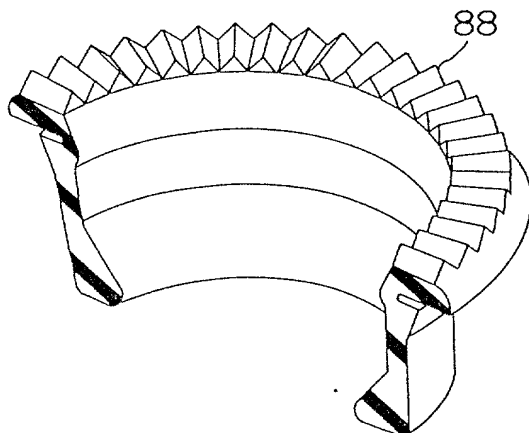


FIG. 4c

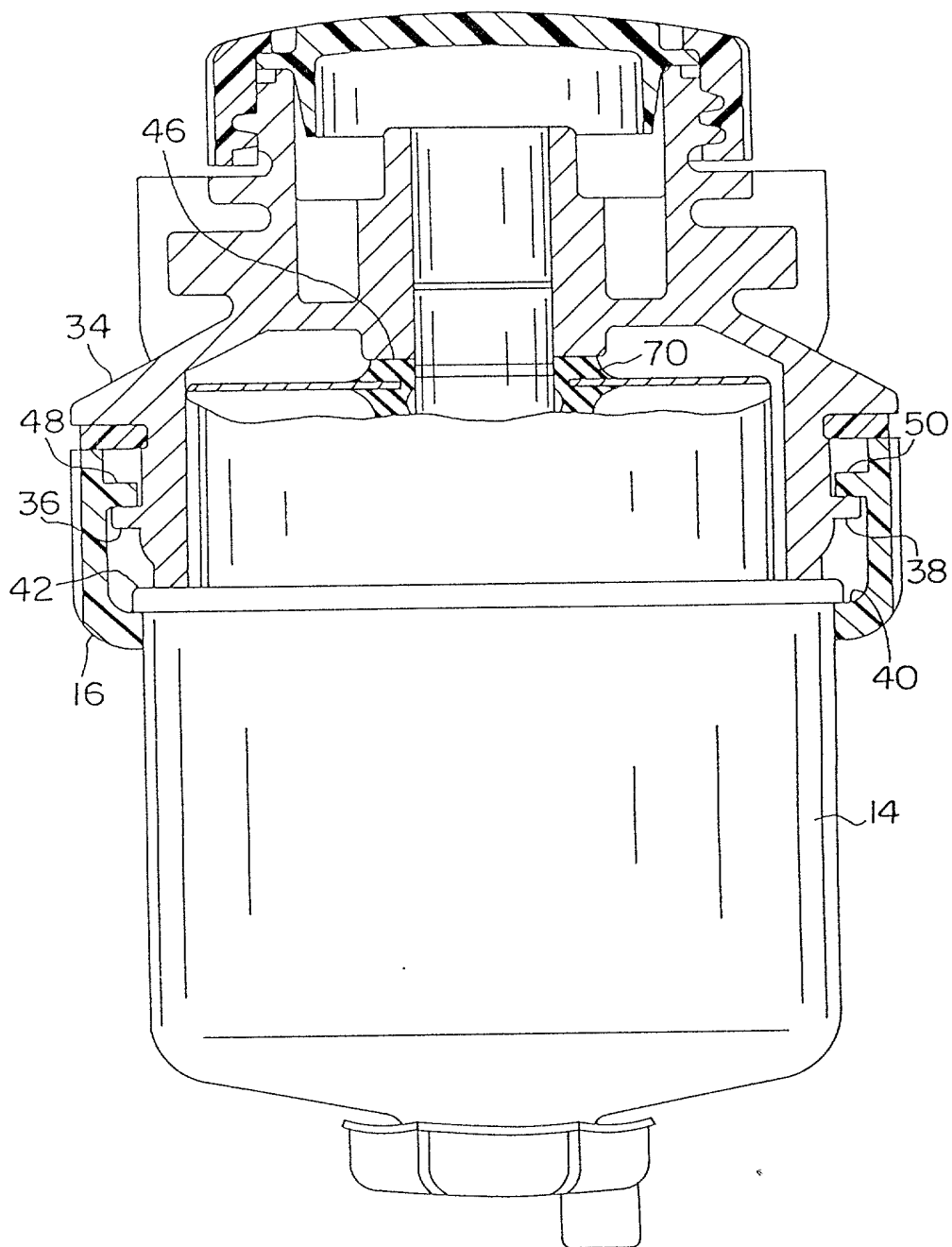
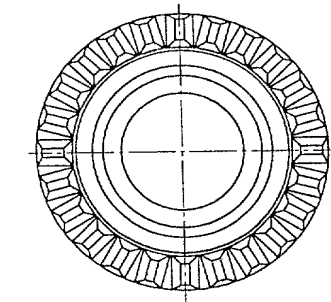


FIG. 5

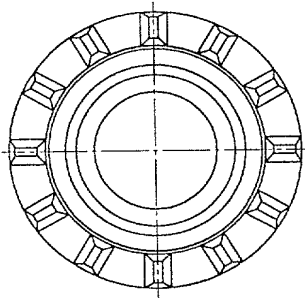


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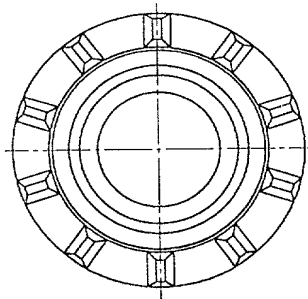
ANY NUMBER OF SPRING FEATURES (CASTELLATIONS) POSSIBLE



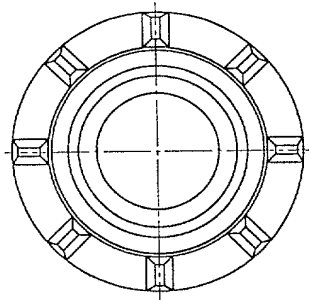
24 CASTELLATIONS  
SHOWN



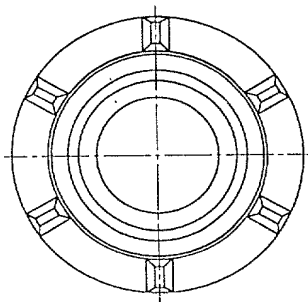
12 CASTELLATIONS  
SHOWN



10 CASTELLATIONS  
SHOWN



8 CASTELLATIONS  
SHOWN



6 CASTELLATIONS  
SHOWN

Figure 8

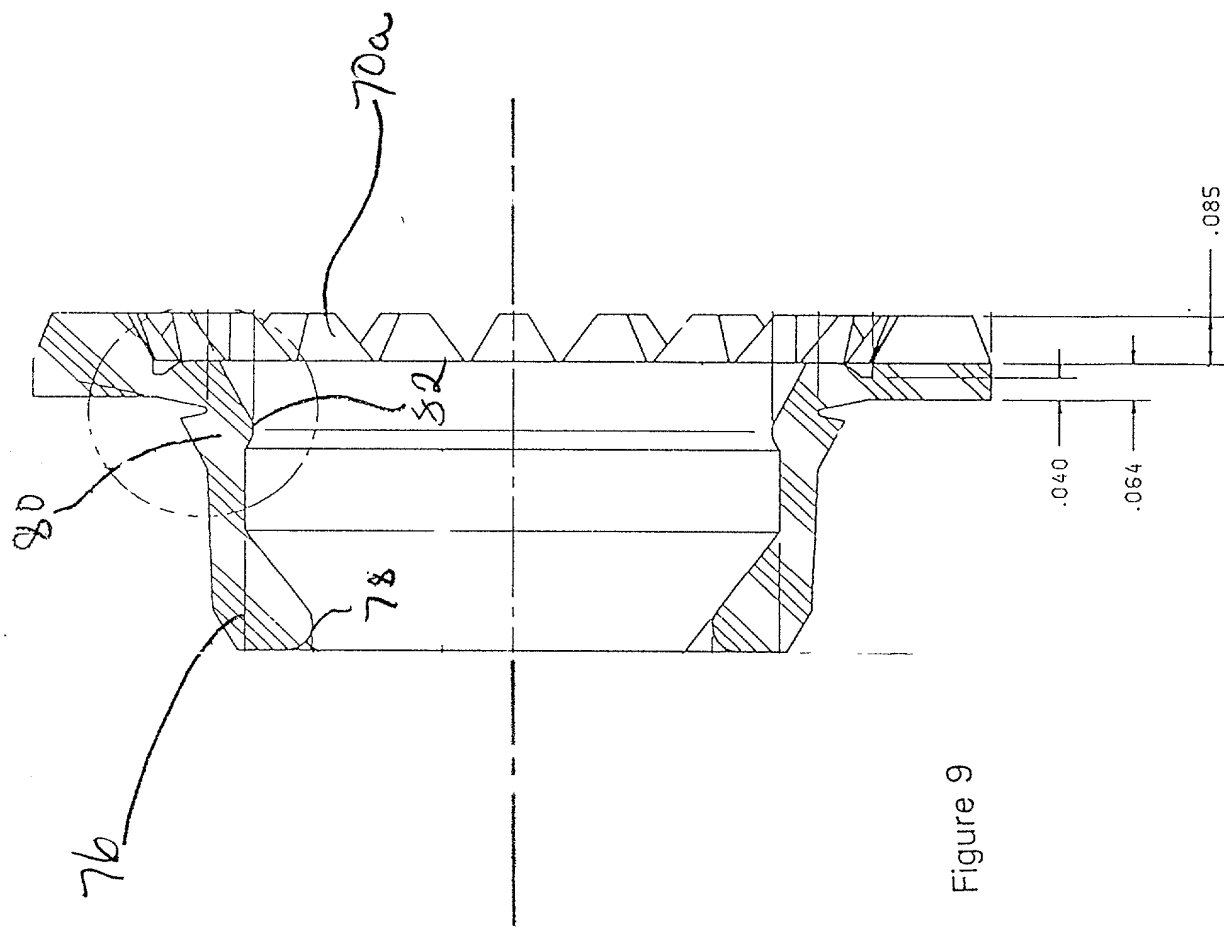


Figure 9



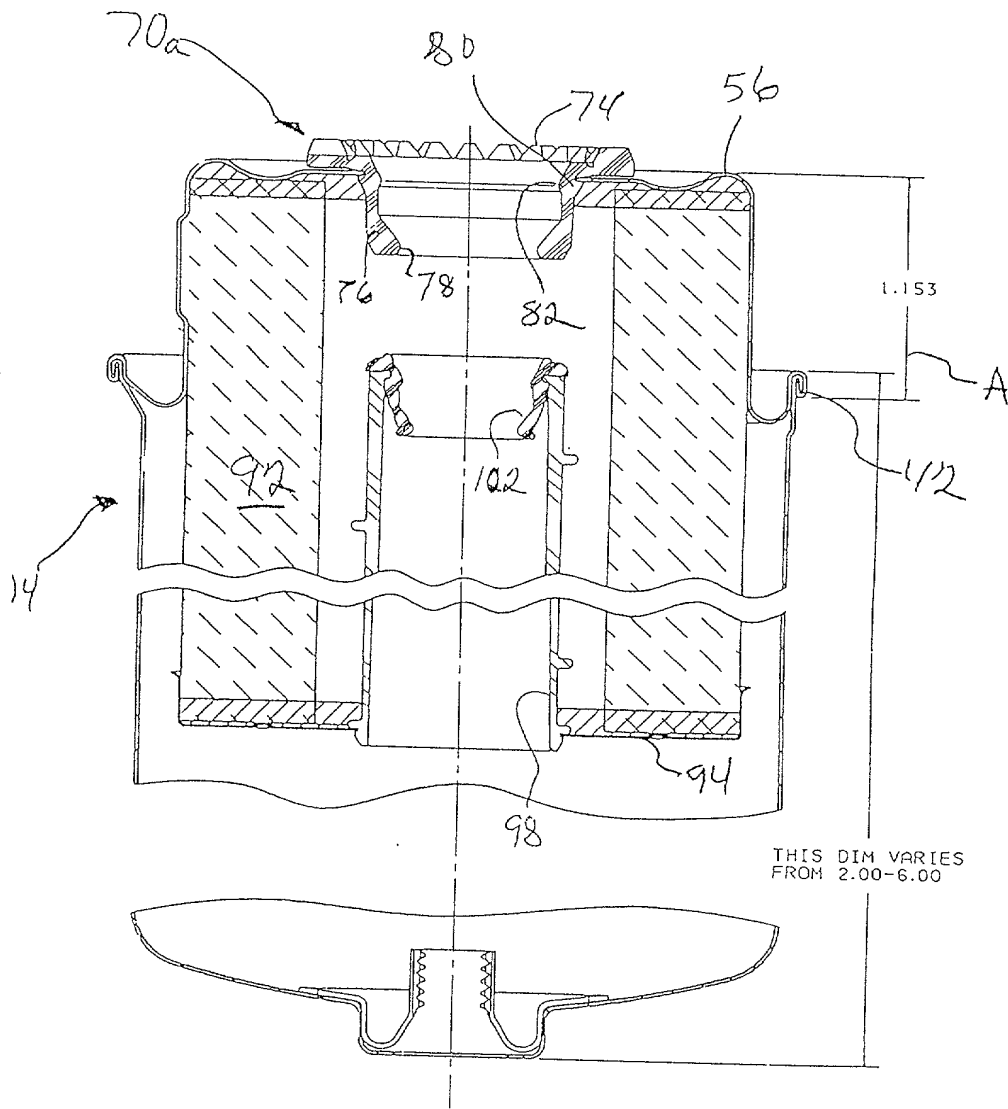


Figure 10

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Load vs Deflection

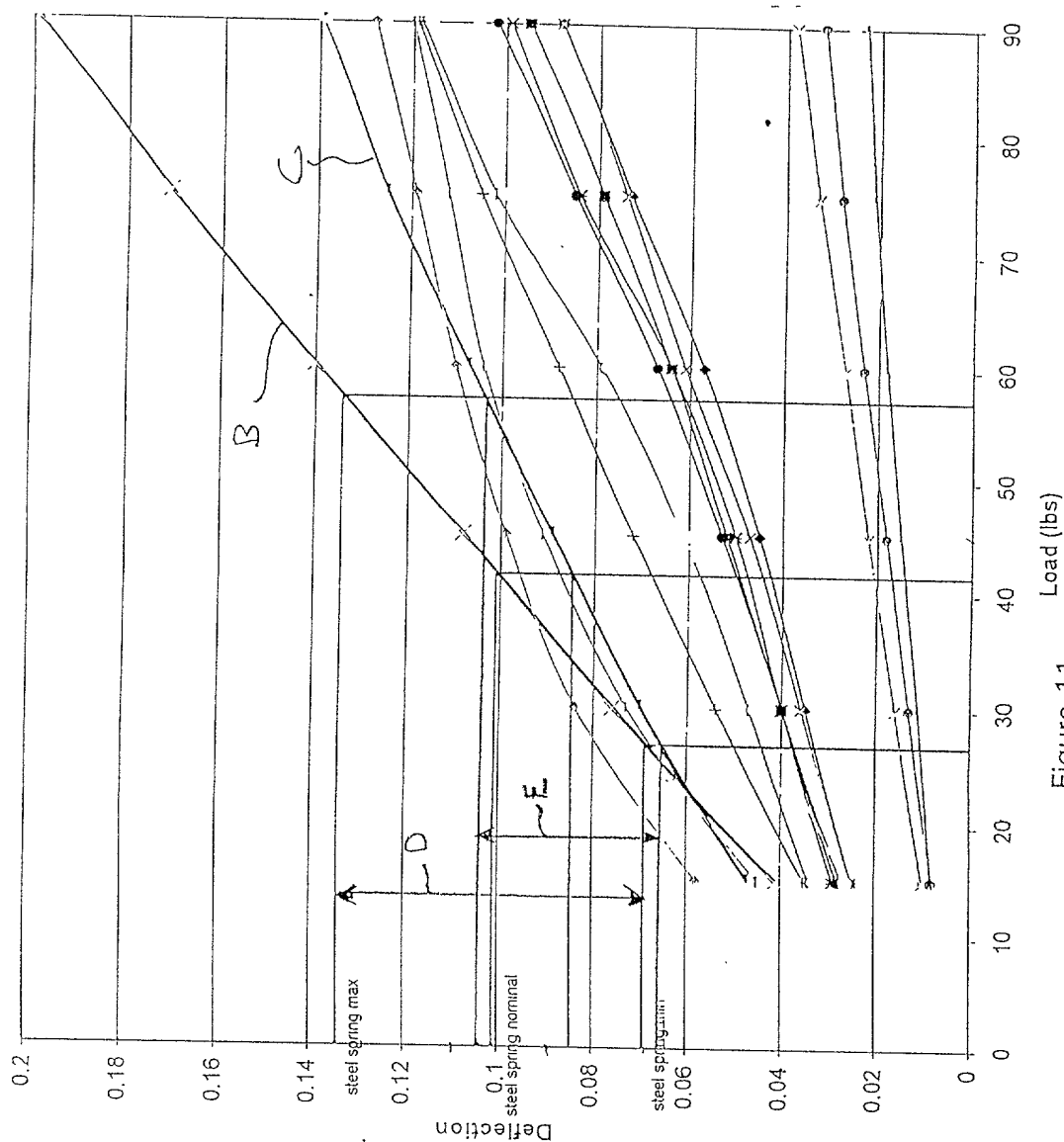


Figure 11

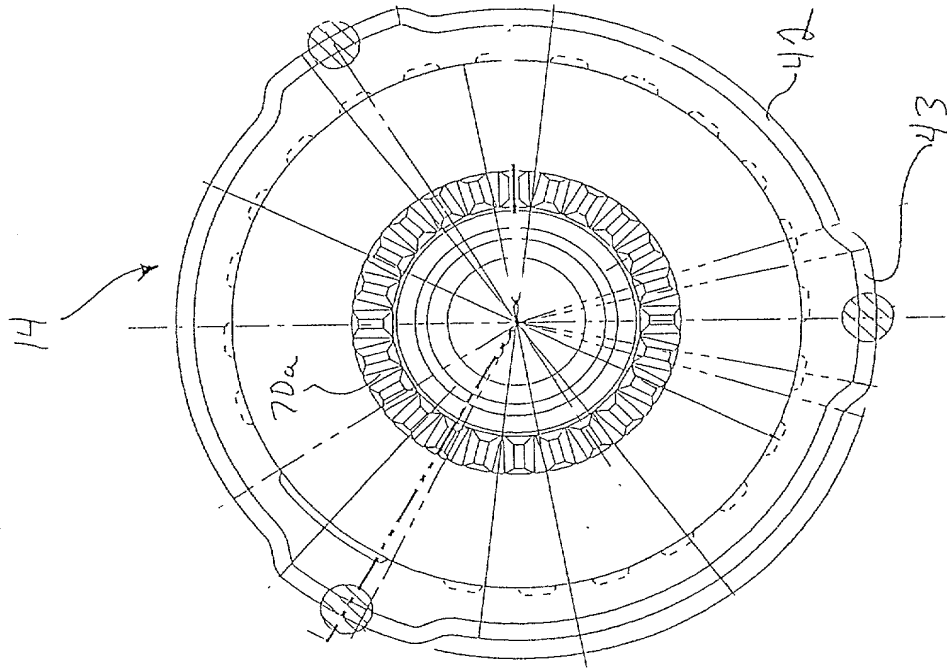


Figure 12